**ABSTRACT OF THE DISCLOSURE**

A method of making a magnetic alloy material includes the steps of: preparing a melt of an alloy material having a predetermined composition; rapidly cooling and solidifying the melt to obtain a rapidly solidified alloy represented by: $Fe_{100-a-b-c}RE_aA_bTM_c$ where RE is at least one rare-earth element selected from La, Ce, Pr, Nd, Pm, Sm, Eu, Gd, Tb, Dy, Ho, Er and Tm and including at least about 90 at% of La; A is at least one element selected from Al, Si, Ga, Ge and Sn; TM is at least one transition metal element selected from Sc, Ti, V, Cr, Mn, Co, Ni, Cu and Zn; and 5 at%$\leqq$a$\leqq$10 at%, 4.7 at%$\leqq$b$\leqq$18 at% and 0 at%$\leqq$c$\leqq$9 at%; and producing a compound phase having an $NaZn_{13}$-type crystal structure in at least about 70 vol% of the rapidly solidified alloy.